

**Listing of Claims:**

1-126. (Canceled)

127. (New) An isolated nucleic acid having within its structure at least 15 consecutive nucleotides present in the sequence set forth in SEQ ID NO:1 and encoding an antigenic fragment of prostate specific membrane antigen, wherein the fragment (i) has a sequence which is the same as a sequence of all or less than all of an outside region of prostate specific membrane antigen, the amino acid sequence of which outside region is set forth within SEQ ID NO:2 beginning with amino acid number 45 at the amino terminus and ending with amino acid number 750 at the carboxy terminus, and (ii) comprises within its structure consecutive amino acids, the sequence of which is at least one of:

- (a) SEQ ID NO:35;
- (b) SEQ ID NO:36; or
- (c) SEQ ID NO:37.

128. (New) An isolated nucleic acid having within its structure at least 15 consecutive nucleotides and encoding an antigenic fragment of prostate specific membrane antigen, wherein the fragment has a sequence which is the same as a sequence of all of an outside region of prostate specific membrane antigen, the amino acid sequence of which outside region is set

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Page 3

forth within SEQ ID NO:2 beginning with amino acid number 45 at the amino terminus and ending with amino acid number 750 at the carboxy terminus.

129. (New) The isolated nucleic acid of claim 128, wherein the nucleic acid has a sequence which is present within the sequence set forth in SEQ ID NO:1.